# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/002,603B
Source: IFW16
Date Processed by STIC: 2/1/07

# ENTERED

IFW16

**RAW SEQUENCE LISTING** DATE: 02/01/2007
PATENT APPLICATION: **US/10/002,603B** TIME: 15:10:57

Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

<110> APPLICANT: Gaiger, Alexander
McNeill, Patricia D.
Smithgall, Molly D.
Moulton, Gus
Vedvick, Thomas S.
Sleath, Paul R.
Mossman, Sally P.
Evans, Lawrence S.
Spies, A. Gregory
Boydston, Jeremy
<120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR WT1 SPECIFIC IMMUNOTHERAPY
<130> FILE REFERENCE: 210121.465C6
<140> CURRENT APPLICATION NUMBER: US 10/002,603B
<141> CURRENT FILING DATE: 2001-10-30
<150> PRIOR APPLICATION NUMBER: US 09/938,864
<151> PRIOR FILING DATE: 2001-08-24
<160> NUMBER OF SEQ ID NOS: 413
<170> SOFTWARE: FastSEQ for Windows Version 3.0
<210> SEQ ID NO: 1
<211> LENGTH: 17
<212> TYPE: PRT
<213> ORGANISM: Homo sapien
<400> SEQUENCE: 1
Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro Ser Leu Gly Gly Gly
1 5 10 15
Gly
<210> SEQ ID NO: 2
<211> LENGTH: 23
<212> TYPE: PRT
<213> ORGANISM: Homo sapien
<400> SEQUENCE: 2
Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
1 5 10 15
Tyr Leu Pro Ser Cys Leu Glu
20
<210> SEQ ID NO: 3
<211> LENGTH: 23
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 3
Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe Pro Asn Ala Pro
1 5 10 15

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Input Set : **F:\465c6.app.txt**
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60 Tyr Leu Pro Ser Cys Leu Glu
61 20
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 19
65 <212> TYPE: PRT
66 <213> ORGANISM: Homo sapien
68 <400> SEQUENCE: 4
69 Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser Ser Val Lys
70 1 5 10 15
71 Trp Thr Glu
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 22
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
82 <400> SEQUENCE: 5
83 gagagtcaga cttgaaagca gt 22
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 20
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
93 <400> SEQUENCE: 6
94 ctgagcctca gcaaatgggc 20
96 <210> SEQ ID NO: 7
97 <211> LENGTH: 27
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
104 <400> SEQUENCE: 7
105 gagcatgcat gggctccgac gtgcggg 27
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 25
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Primer for use in amplifying human WT1
115 <400> SEQUENCE: 8
116 ggggtaccca ctgaacggtc cccga 25
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
126 <400> SEQUENCE: 9

**RAW SEQUENCE LISTING** DATE: 02/01/2007
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Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

127 tccgagccgc acctcatg 18
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 18
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
137 <400> SEQUENCE: 10
138 gcctgggatg ctggactg 18
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 27
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
148 <400> SEQUENCE: 11
149 gagcatgcga tgggttccga cgtgcgg 27
151 <210> SEQ ID NO: 12
152 <211> LENGTH: 29
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Primer for use in amplifying mouse WT1
159 <400> SEQUENCE: 12
160 ggggtacctc aaagcgccac gtggagttt 29
162 <210> SEQ ID NO: 13
163 <211> LENGTH: 17
164 <212> TYPE: PRT
165 <213> ORGANISM: Mus musculus
167 <400> SEQUENCE: 13
168 Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Ser Ser Leu Gly Gly Gly
169 1 5 10 15
170 Gly
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 19
175 <212> TYPE: PRT
176 <213> ORGANISM: Mus musculus
178 <400> SEQUENCE: 14
179 Gly Ala Thr Leu Lys Gly Met Ala Ala Gly Ser Ser Ser Ser Val Lys
180 1 5 10 15
181 Trp Thr Glu
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 15
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapien
189 <400> SEQUENCE: 15
190 Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
191 1 5 10 15
193 <210> SEQ ID NO: 16

RAW SEQUENCE LISTING DATE: 02/01/2007
PATENT APPLICATION: US/10/002,603B TIME: 15:10:57

Input Set : F:\465c6.app.txt
Output Set: N:\CRF4\02012007\J002603B.raw

<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 16
Arg Ile His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg
1 5 10 15
<210> SEQ ID NO: 17
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 17
Val Arg Arg Val Ser Gly Val Ala Pro Thr Leu Val Arg Ser
1 5 10
<210> SEQ ID NO: 18
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo sapien
<400> SEQUENCE: 18
Val Arg Arg Val Pro Gly Val Ala Pro Thr Leu Val Arg Ser
1 5 10
<210> SEQ ID NO: 19
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Homo sapien
<400> SEQUENCE: 19
Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
1 5 10 15
<210> SEQ ID NO: 20
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Mus musculus
<400> SEQUENCE: 20
Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val Arg His His
1 5 10 15
<210> SEQ ID NO: 21
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: sense primer for amplification of
WT1 in mouse cell lines
<400> SEQUENCE: 21
cccaggctgc aataagagat a 21
<210> SEQ ID NO: 22
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: antisense primer for amplification

RAW SEQUENCE LISTING DATE: 02/01/2007
PATENT APPLICATION: US/10/002,603B TIME: 15:10:57

Input Set : F:\465c6.app.txt
Output Set: N:\CRF4\02012007\J002603B.raw

of WT1 in mouse cell lines

<400> SEQUENCE: 22
atgttgtgat ggcggaccaa t 21

<210> SEQ ID NO: 23
<211> LENGTH: 20
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: sense Beta Actin primer used
in the control reactions

<400> SEQUENCE: 23
gtggggcgcc ccaggcacca 20

<210> SEQ ID NO: 24
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: antisense Beta Actin primer used
in the control reactions

<400> SEQUENCE: 24
gtccttaatg ctacgcacga tttc 24

<210> SEQ ID NO: 25
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Primer for use in amplifying human WT1

<400> SEQUENCE: 25
ggcatctgag accagtgaga a 21

<210> SEQ ID NO: 26
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Primer for use in nested RT-PCR

<400> SEQUENCE: 26
gctgtcccac ttacagatgc a 21

<210> SEQ ID NO: 27
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Primer for use in nested RT-PCR

<400> SEQUENCE: 27
tcaaagcgcc agctggagtt t 21

<210> SEQ ID NO: 28
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo sapien

**RAW SEQUENCE LISTING ERROR SUMMARY** DATE: 02/01/2007
PATENT APPLICATION: **US/10/002,603B** TIME: 15:10:58

FYI

Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

**Please Note:**
**Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.**

Seq#:406; Xaa Pos. 85,86,172,173,242,245,246,247

**VERIFICATION SUMMARY** DATE: 02/01/2007
PATENT APPLICATION: **US/10/002,603B** TIME: 15:10:58

Input Set : **F:\465c6.app.txt**
Output Set: **N:\CRF4\02012007\J002603B.raw**

L:5162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:406 after pos.:80
M:341 Repeated in SeqNo=406